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VI
THREE NEW SPECIES OF DOLICHOPODIDÆ
(DIPTERA) FROM CALIFORNIA
AND NEVADA

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1. *Porphyrops montanus*, new species

A small blackish species with blackish wings and black feet.

Male: Length, 3.3 mm. Face narrow, silvery white. Front violet with two spots of white pollen which form a transverse band near its middle. Antennæ black; third joint of the usual acute triangular shape, not quite as long as the eye height; the apical arista about two-thirds as long as third joint. Lateral and inferior orbital cilia white, a few of the upper cilia black.

Thorax dark green, not very shining; pleuræ dulled with whitish pollen. Abdomen bronze or coppery-brown with a little blue or greenish on the center of the dorsum of the first and second segments, and rather long white hair on the sides of the first three segments. Hypopygium black, extending about one-half its length below the abdomen, its lamellæ black, slender, rather wide at base but abruptly narrowing and tapering to a slender point, not quite as long as the third antennal joint, fringed with delicate pale hairs on both edges and with two long black hairs at tip; inner appendages small, black with a point at tip and a tuft of black hair near the base. Legs and feet black; fore and middle tibiæ a little yellowish on upper surface of apical two-thirds; fore coxæ with long white hair on their anterior surface; fore basitarsi widened a little at tip into a small spur, making it a little concave below, a little shorter than the remaining four joints taken together, fourth joint very short. Calypters, their cilia, and the halteres yellow.

Wings strongly tinged with blackish; third and fourth veins bent so as to approach each other beyond the cross-vein, still nearly parallel at their tips.

Female: Color and wings as in the male. Face wide with white pollen, through which the green ground color can be seen; third antennal joint short, a little longer than wide, triangular; the apical arista longer than the antennæ. Front violet, narrowly blue or green just above the antennæ and along the orbits; fore coxæ with shorter hair than in the male; fore basitarsi not concave below, their tips not widened.

Described from one male and three females taken at Huntington Lake, Fresno Co., California, July 9, 1919, at 7000 ft. elevation, by Edward P. Van Duzee.

Holotype (No. 729), male, and allotype (No. 730), female, in the Museum of the California Academy of Sciences.

This species is very much like *P. mundus* Loew, but it is smaller and the female is more wholly black, the male has the lamellæ long and slender, while in *mundus* they are small and rounded; the inner appendages are small in this species and altogether black while in *mundus* they are long and yellowish; the third antennal joint is shorter in this than in *mundus*.

2. *Gymnopternus californicus*, new species

Male: Length, 3.2 mm. Face wide, covered with brown pollen. Front dark blue-green, almost black. Antennæ black, third joint scarcely pointed at tip, about as long as wide. Orbital cilia wholly black.

Thorax and abdomen greenish black, shining; hypopygium and its lamellæ black, the latter small, crescent shaped, fringed with brown hairs.

Legs and feet wholly black, the knees a very little yellowish; middle tibix with one bristle below and four above, all rather long and slender; middle and hind femora each with one preapical bristle, the latter with rather long hair on the upper edge, which is longest near the base. Calypsters and halteres yellow, the former with black cilia.

Wings tinged with blackish; rather evenly rounded on the posterior margin, the anal angle being rounded off, not at all prominent; third and fourth veins a very little convergent at their tips, still the tips far apart.

Female: Agrees with the male in color and in the form of the wings. The face is wider and a little more gray than in the male; the hair on the upper edge of the hind femora is much shorter. The fore tibix with a row of little bristle-like hairs on their upper surfaces which are quite conspicuous; there are also three or four longer bristles among these hairs.

Described from 11 males and 18 females, taken at Huntington Lake, Fresno Co., California, July 9, 1919, at 7000 ft. elevation, by Edward P. Van Duzee.

Holotype (No. 731), male, and allotype (No. 732), female, in the Museum of the California Academy of Sciences.

3. *Gymnopternus convergens*, new species

Male: Length, 3 mm. Face wide, covered with dark brown, almost black, pollen. Front greenish black. Antennæ black, third joint longer than wide, somewhat oval, the arista inserted above the tip; orbital cilia wholly black.

Thorax and abdomen very dark green, shining, the latter with slight bronze reflections. Hypopygium and its lamellæ black, the latter crescent shaped, fringed with brown hairs on outer edge.

Legs and feet black, the fore and middle tibiæ more brownish; middle and hind femora each with two preapical bristles; middle tibiæ with two small bristles below and about six rather short ones above. Calypters and halteres brownish yellow; the latter with yellow knobs and the former with black cilia.

Wings tinged with brownish gray; third and fourth veins convergent towards their tips, which are rather close together; anal angle of wing rather prominent, the base of the wing being at right angles to the costal line; wing widest about half way from tip of fifth to tip of sixth vein, the hind margin being somewhat flattened from that point to the anal angle.

Female: Color and form of wing about as in the male, but the anal angle of the wing is a little less prominent. The middle and hind femora have each two preapical bristles as in the male; the face is a little wider and perhaps a little more grayish.

Described from four males and five females taken by the writer at Wells, Nevada, June 6, 1915.

Holotype and allotype in the author's collection. Paratypes in the collection of the author and in that of the California Academy of Sciences (No. 733).